New Brunswick

Integrated Climate Bulletin Spring 2020 Review & Summer Outlook

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Meteorological Service of Canada
Environment and Climate Change Canada
June 2, 2020





March 2020; Climate Summary

			Mean Temperature (°C)			Total Precip (mm)			
									Diff from
								Total as	Normal
		Station	Monthly	Normal	Diff from	Monthly	Normal	% of	as % of
Station Name	TC ID	Type	Mean	Mean	Normal	Total	Total	Normal	Normal
AROOSTOOK		DAILY	-3.4	-4.1	0.7		_		
BAS CARAQUET	WXS	AU8	-4.3	-4.1	-0.2	100.0	91.2	110	10
BAS CARAQUET		DAILY				77.0	91.2	84	-16
BATHURST A	ZBF	NCA	-4.3	-3.8	-0.5				
BOUCTOUCHE CDA CS	ABT	AU8	-2.8	-3.0	0.2	50.3	93.1	54	-46
CHARLO AUTO	ZCR	AU8	-5.4	-4.9	-0.4	69.4	77.4	90	-10
MIRAMICHI RCS	ACQ	AU8	-3.4	-3.4	0.0				
DOAKTOWN AUTO RCS	ADN	AU8	-3.2	-3.3	0.1	68.6	90.1	76	-24
EDMUNDSTON	ERM	AU8	-6.6	-5.0	-1.6	82.8			
FREDERICTON INTL A	YFC	NCA	-1.6	-2.4	0.8				
FREDERICTON CDA CS	AFC	AU8	-1.5	-2.2	0.7	47.2	90.1	52	-48
GAGETOWN AWOS A	YCX	AU5	-1.6	-1.8	0.2				
GRAND MANAN SAR CS	XGM	AU8	0.7						
KOUCHIBOUGUAC	AKC	AU8	-2.9	-3.2	0.2				
MECHANIC SETTLEMENT	AMS	AU8	-2.8			94.2			
MISCOU ISLAND (AUT)	WMI	AU8	-4.0						
MONCTON INTL A	YQM	NCH	-2.0	-2.9	0.9	44.7	115.6	39	-61
OAK POINT		DAILY	-0.7	-1.8	1.1	53.6	100.7	53	-47
POINT LEPREAU CS	WPE	AU8	0.8	-1.5	2.3	47.6	130.1	37	-63
RED PINES	ARP	AU8	-4.7	-4.2	-0.5	73.4	73.1	100	0
SAINT JOHN A	YSJ	NCH	-0.6	-2.5	1.9	46.2	108.2	43	-57
SUSSEX FOUR CORNERS	ASF	AU8	-1.0	-1.9	0.8	39.6	114.7	35	-65
WOODSTOCK		DAILY	-2.3	-3.4	1.1	60.4	91.2	66	-34
WOODSTOCK NEWBRIDGE	EWD	AU8	-2.9	-3.4	0.5	60.8	91.2	67	-33
Average			-2.6	-3.1	0.4	63.5	97.0	65	-35
Max			0.8	-1.5	2.3	100.0	130.1	110	10
Min			-6.6	-5.0	-1.6	39.6	73.1	35	-65





April 2020; Climate Summary

			Mean 1	emperat	ure (°C)	Total Precip (mm)			
Station Name	TCID	Station Type	Monthly Mean	Normal Mean	Diff from	Monthly Total	Normal Total	Total as % of Normal	
BAS CARAQUET	WXS	AU8	1.4		-0.6	52.3	82.6	63	
BAS CARAQUET	11112	DAILY				63.2	82.6	77	
BATHURST A	ZBF	NCA	1.5	3.2	-1.7				
BOUCTOUCHE CDA CS	ABT	AU8	2.6	3.0	-0.4	39.5	85.7	46	
CHARLO AUTO	ZCR	AU8	0.9	1.9	-1.0	59.6	71.7	83	
MIRAMICHI RCS	ACQ	AU8	2.3	3.2	-0.9				
DOAKTOWN AUTO RCS	ADN	AU8	2.4	3.7	-1.3	61.9	83.4	74	
EDMUNDSTON	ERM	AU8	0.9			63.9			
FREDERICTON INTL A	YFC	NCA	3.5	4.5	-1.0				
FREDERICTON CDA CS	AFC	AU8	3.8	4.8	-1.0	87.5	81.6	107	
GAGETOWN AWOS A	YCX	AU5	3.6	4.8	-1.2				
GRAND MANAN SAR CS	XGM	AU8	3.5						
KOUCHIBOUGUAC	AKC	AU8	1.9	3.3	-1.4				
MECHANIC SETTLEMENT	AMS	AU8	1.4			131.1			
MISCOU ISLAND (AUT)	WMI	AU8	1.0				_	<u> </u>	
MONCTON INTL A	YQM	NCH	3.0	3.5	-0.6	43.8	97.6	45	
MONCTON A	YQM	NCA	2.8	3.5	-0.7		_	<u> </u>	
OAK POINT		DAILY	3.7	4.8	-1.1	119.6	89.4	² 134	
POINT LEPREAU CS	WPE	AU8	4.0	4.0	2 0.0	74.7	116.0	64	
RED PINES	ARP	AU8	1.4	2.8	-1.4	76.6	75.6	101	
SAINT JOHN A	YSJ	NCH	3.1	3.7	-0.6	86.3	105.3	82	
SUSSEX FOUR CORNERS	ASF	AU8	3.6	4.8	-1.2	69.5	89.7	77	
WOODSTOCK		DAILY	3.1	3.7	-0.6	76.4	80.4	95	
WOODSTOCK NEWBRIDGE	EWD	AU8	2.8	3.7	-0.9	87.3	80.4	109	
Average			2.5	3.6	-0.9	74.6	87.3	83	
Max			4.0	4.8	0.0	131.1	116.0	134	
Min			0.9	1.9	-1.7	39.5	71.7	45	



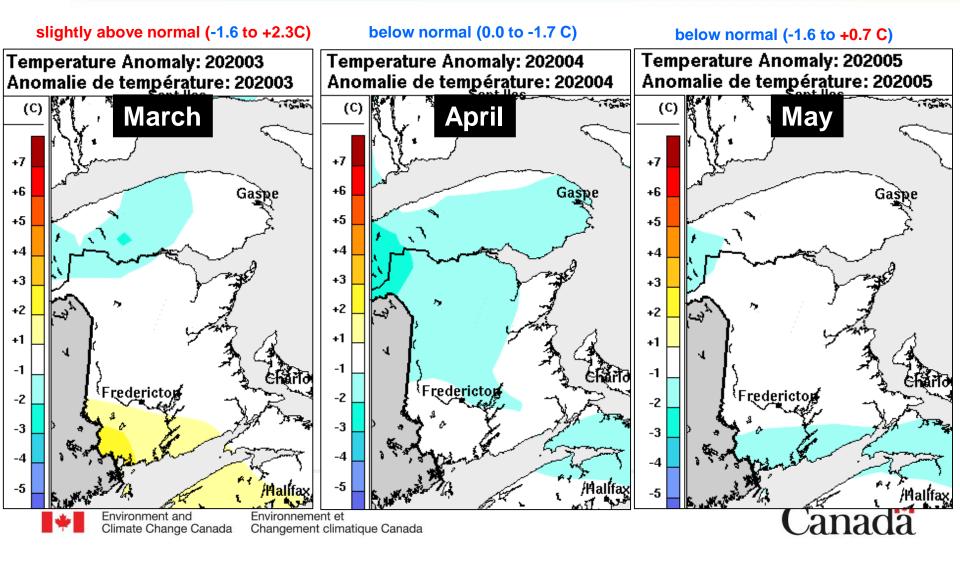


May 2020; Climate Summary

			Mean Temperature (°C)				Total Precip (mm)			
									Diff from	
								Total as	Normal	
		Station	Monthly	Normal	Diff from	Monthly	Normal	% of	as % of	
Station Name	TC ID	Type	Mean	Mean	Normal	Total	Total	Normal	Normal	
BAS CARAQUET	WXS	AU8	9.6	8.8	3 0.7	59.0	85.6	69	-31	
BAS CARAQUET		DAILY				54.6	85.6	64	-36	
BATHURST A	ZBF	NCA	9.8	9.7	0.1	80.9	103.1	78	-22	
BOUCTOUCHE CDA CS	ABT	AU8	9.9	9.8	0.0	62.4	100.5	62	-38	
CHARLO AUTO	ZCR	AU8	9.3	9.0	0.3	51.8	84.8	61	-39	
MIRAMICHI RCS	ACQ	AU8	10.3	10.0	0.3					
DOAKTOWN AUTO RCS	ADN	AU8	10.0	10.6	-0.6	82.6	113.2	73	-27	
EDMUNDSTON	ERM	AU8	8.7			65.5	90.4	72	-28	
FREDERICTON INTL A	YFC	NCA	10.5	11.1	-0.6	65.2	96.2	68	-32	
FREDERICTON CDA CS	AFC	AU8	10.6	11.3	-0.8	69.5	103.8	67	-33	
GAGETOWN AWOS A	YCX	AU5	10.6	11.3	-0.6					
GRAND MANAN SAR CS	XGM	AU8	8.8							
KOUCHIBOUGUAC	AKC	AU8	9.5	9.8	-0.3					
MECHANIC SETTLEMENT	AMS	AU8	8.8			94.6				
MISCOU ISLAND (AUT)	WMI	AU8	8.3				_			
MONCTON INTL A	YQM	NCH	9.8	10.0		45.5	96.9	47	-53	
OAK POINT		DAILY	9.6	11.3	-1.6	115.7	105.8	1 09	9	
POINT LEPREAU CS	WPE	AU8	8.4	8.7	-0.3	98.8	130.2	76	-24	
RED PINES	ARP	AU8	8.7	9.8	-1.1	79.3	96.0	83	-17	
SAINT JOHN A	YSJ	NCH	8.0	9.5	-1.5					
SUSSEX FOUR CORNERS	ASF	AU8	9.9	11.1	-1.2	57.0	103.0	55	-45	
WOODSTOCK NEWBRIDGE	EWD	AU8	10.1	10.9	-0.8	82.3	94.2	87	-13	
Average			9.5	10.2	-0.5	72.8	99.3	71	-29	
Max			10.6	11.3		115.7	130.2	109	9	
Min			8.0	8.7	-1.6	45.5	84.8	47	-53	



Mar.-Apr.-May 2020; Temperature departure from 1981-2010 mean

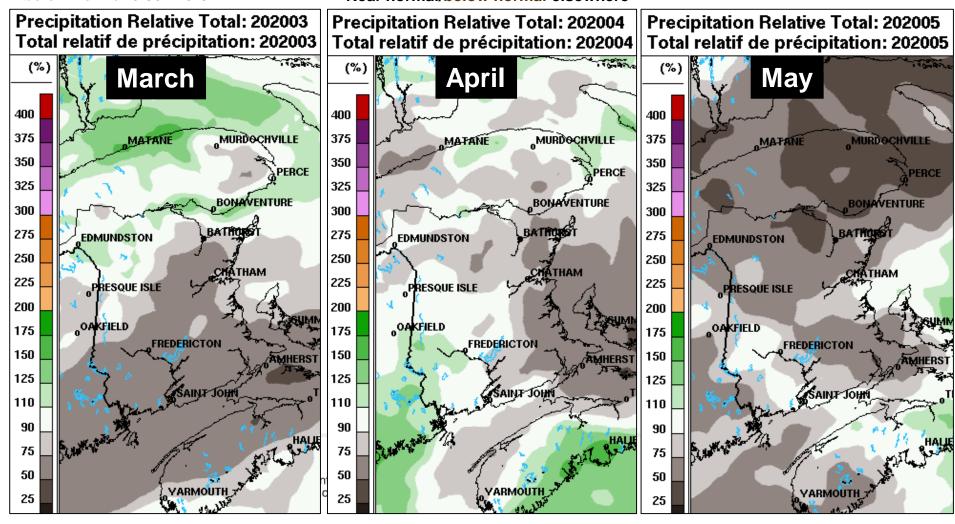


Mar.-Apr.-May 2020; Precipitation departure from 2002-2019 mean

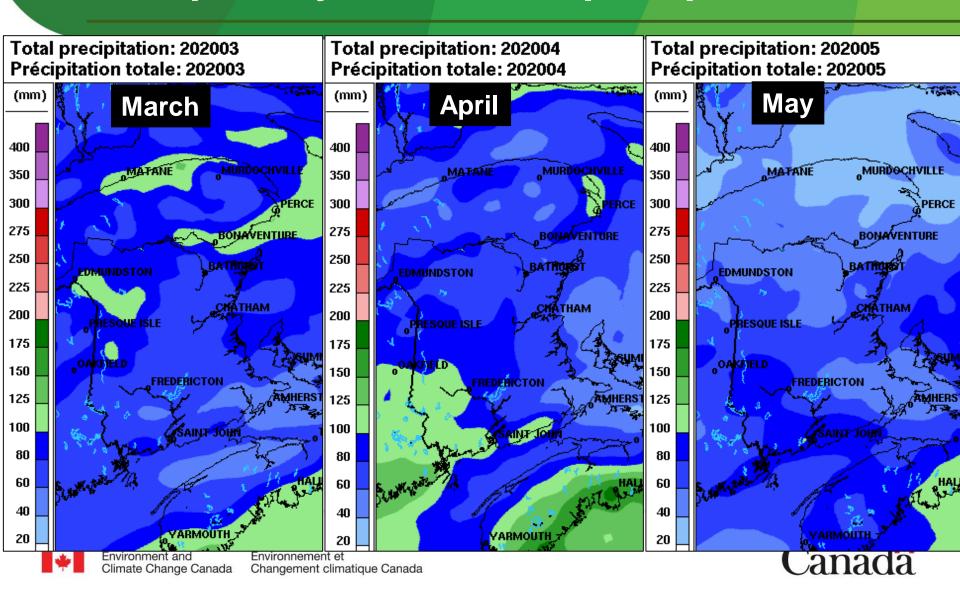
Slightly above normal northwest, below normal elsewhere

Slightly above normal southwest, Near normal/below normal elsewhere

Below normal to near normal

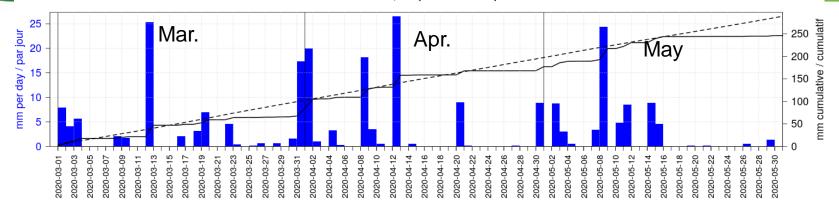


Mar.-Apr.-May 2020; Total precipitation



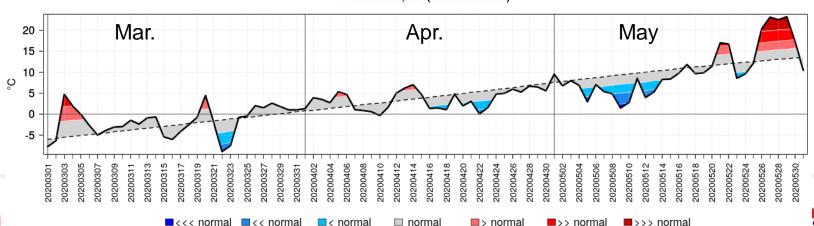
2020 Temperature and precipitation – (M,A,M) for Fredericton

Daily Total Precipitation (bars), Cumulative (line) and Cumulative Long-Term Mean (dashed line) Précipitation totale quotidienne (barres), Cumulative (trait) et Cumulative moyenne à long terme (tirreté) Fredericton, NB (45.94N 66.63W)



Environnement et Environment and Changement climatique Canada Climate Change Canada ECCC Gridded Precipitation Analysis / Analyse de précipitation sur grille de ECCC Climatology / Climatologie: 2002-2019

Daily Mean Temperature (line), Long-Term Mean (dashed line) and Categories based on Standard Deviations (blue and red) Température quotidienne moyenne (trait). Moyenne à long terme (tirreté) et Catégories basées sur des écart-types (bleu et rouge) Fredericton, NB (45.94N 66.63W)

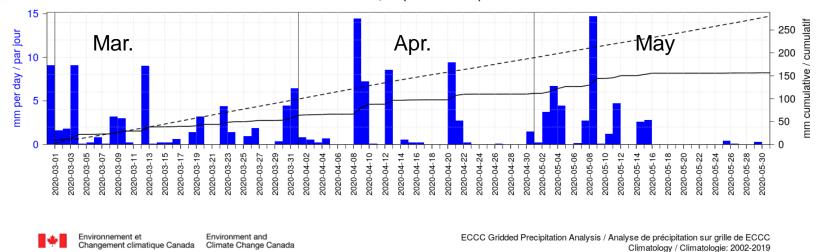




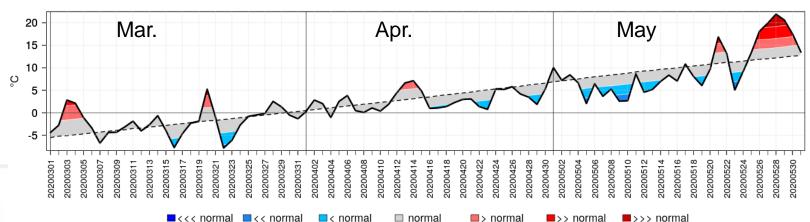


2020 Temperature and precipitation – (M,A,M) for Moncton

Daily Total Precipitation (bars), Cumulative (line) and Cumulative Long-Term Mean (dashed line) Précipitation totale quotidienne (barres), Cumulative (trait) et Cumulative moyenne à long terme (tirreté) Moncton, NB (46.08N 64.76W)



Daily Mean Temperature (line), Long-Term Mean (dashed line) and Categories based on Standard Deviations (blue and red) Température quotidienne moyenne (trait), Moyenne à long terme (tirreté) et Catégories basées sur des écart-types (bleu et rouge) Moncton, NB (46.08N 64.76W)

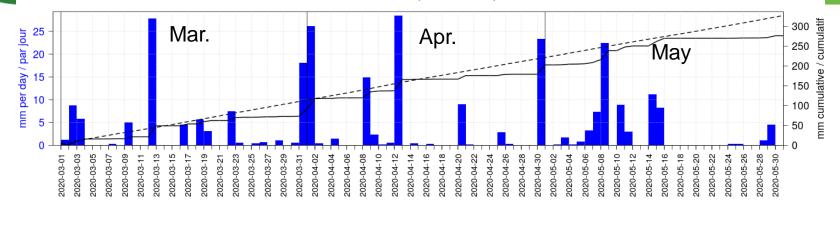






2020 Temperature and precipitation -(M,A,M) for Saint John

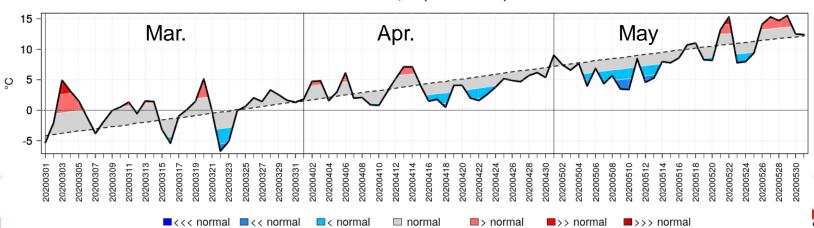
Daily Total Precipitation (bars), Cumulative (line) and Cumulative Long-Term Mean (dashed line) Précipitation totale quotidienne (barres), Cumulative (trait) et Cumulative moyenne à long terme (tirreté) Saint John, NB (45,26N 66,07W)



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ECCC Gridded Precipitation Analysis / Analyse de précipitation sur grille de ECCC Climatology / Climatologie: 2002-2019

Daily Mean Temperature (line), Long-Term Mean (dashed line) and Categories based on Standard Deviations (blue and red) Température quotidienne moyenne (trait), Moyenne à long terme (tirreté) et Catégories basées sur des écart-types (bleu et rouge) Saint John, NB (45,26N 66,07W)





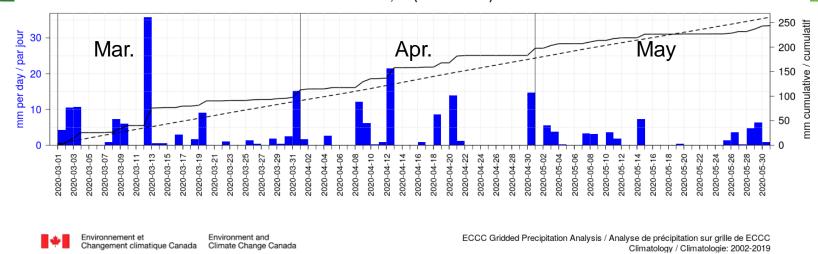


2020 Temperature and precipitation – (M,A,M) for Edmundston

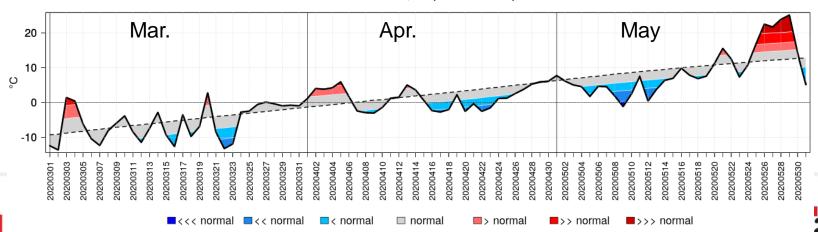
Daily Total Precipitation (bars), Cumulative (line) and Cumulative Long-Term Mean (dashed line)

Précipitation totale quotidienne (barres), Cumulative (trait) et Cumulative moyenne à long terme (tirreté)

Edmundston, NB (47.37N 68.33W)



Daily Mean Temperature (line), Long-Term Mean (dashed line) and Categories based on Standard Deviations (blue and red)
Température quotidienne moyenne (trait), Moyenne à long terme (tirreté) et Catégories basées sur des écart-types (bleu et rouge)
Edmundston, NB (47.37N 68.33W)

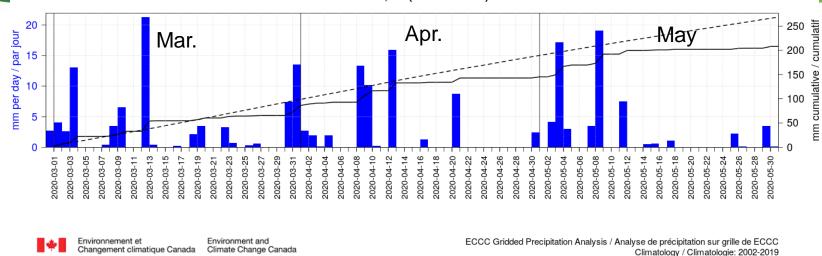




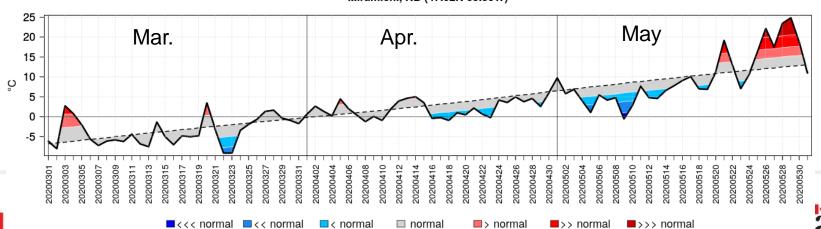


2020 Temperature and precipitation – (M,A,M) for Miramichi

Daily Total Precipitation (bars), Cumulative (line) and Cumulative Long-Term Mean (dashed line) Précipitation totale quotidienne (barres), Cumulative (trait) et Cumulative moyenne à long terme (tirreté) Miramichi, NB (47.02N 65.50W)



Daily Mean Temperature (line), Long-Term Mean (dashed line) and Categories based on Standard Deviations (blue and red) Température quotidienne moyenne (trait), Moyenne à long terme (tirreté) et Catégories basées sur des écart-types (bleu et rouge) Miramichi, NB (47.02N 65.50W)





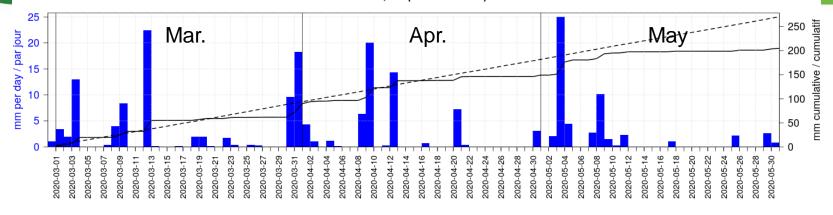


2020 Temperature and precipitation – (M,A,M) for Bathurst

Daily Total Precipitation (bars), Cumulative (line) and Cumulative Long-Term Mean (dashed line)

Précipitation totale quotidienne (barres), Cumulative (trait) et Cumulative moyenne à long terme (tirreté)

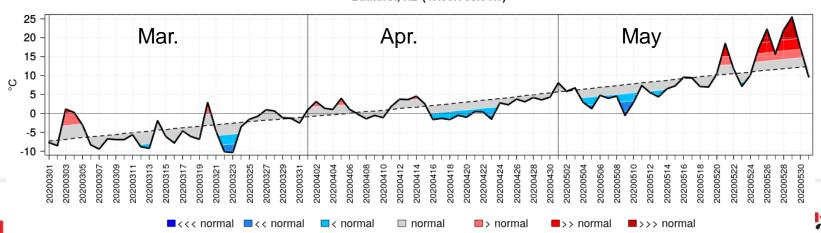
Bathurst, NB (47.59N 65.64W)



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ECCC Gridded Precipitation Analysis / Analyse de précipitation sur grille de ECCC Climatology / Climatologie: 2002-2019

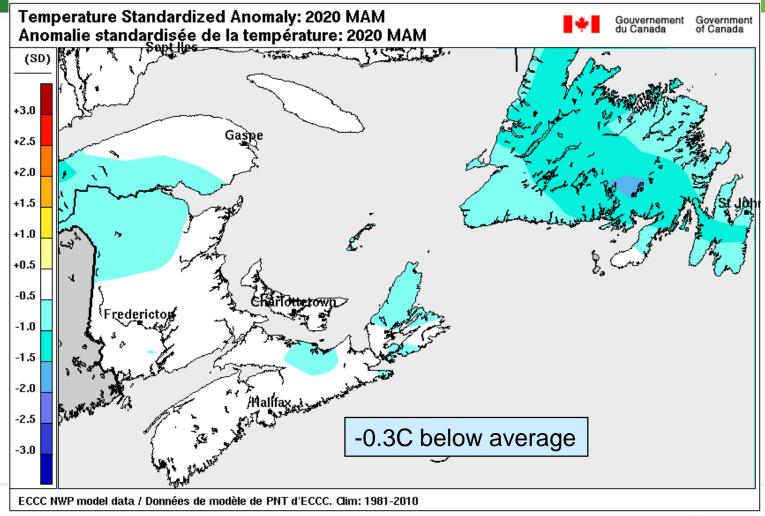
Daily Mean Temperature (line), Long-Term Mean (dashed line) and Categories based on Standard Deviations (blue and red)
Température quotidienne moyenne (trait), Moyenne à long terme (tirreté) et Catégories basées sur des écart-types (bleu et rouge)
Bathurst, NB (47.59N 65.64W)







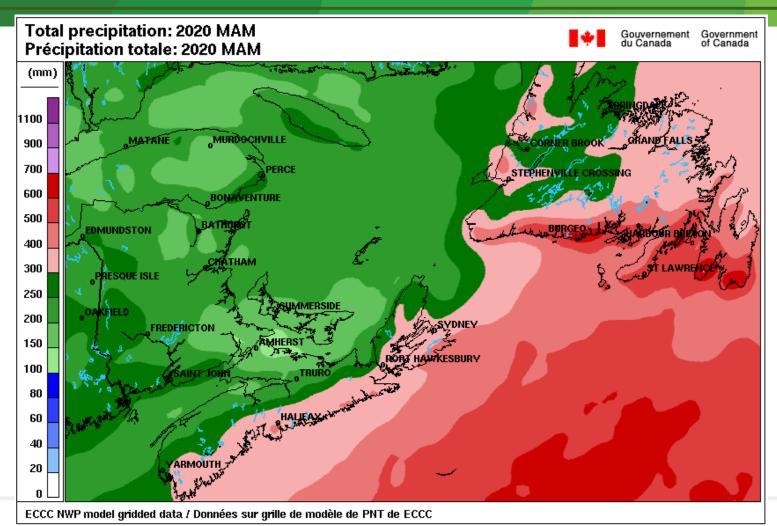
Spring 2020 (M,A,M) Temperature Departure from 1981-2010 mean







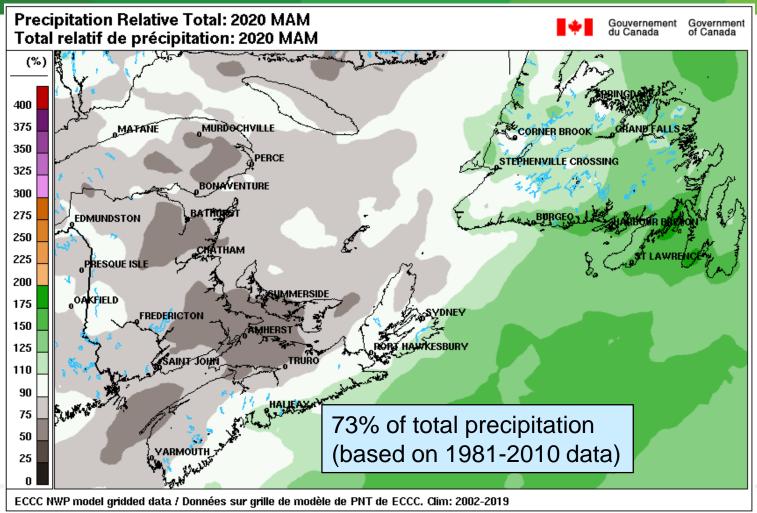
Spring 2020 (M,A,M) Total precipitation







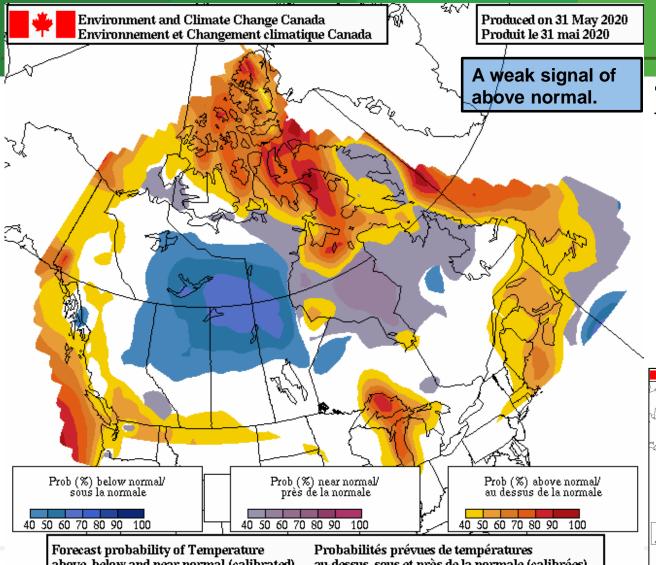
Spring 2020 (M,A,M) Precipitation departure from 2002-2019 mean







Outlook – Summer 2020 (J,J,A)

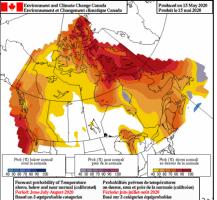


Temperature

June July **August**

NB (J, J, A) Normal; 25/12 C

Produced May 15





above, below and near normal (calibrated) Period: June-July-August 2020

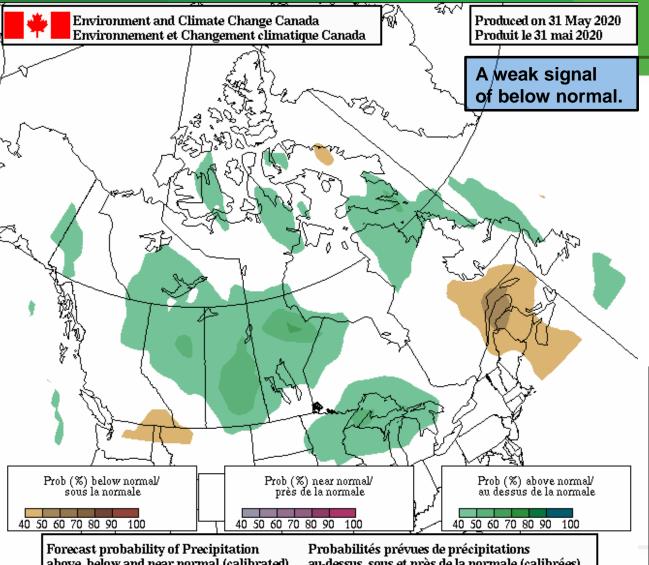
Based on 3 equiprobable categories from 1981-2010 climatology

au-dessus, sous et près de la normale (calibrées) Période: juin-juillet-août 2020

Basé sur 3 catégories équiprobables de la climatologie 1981-2010



Outlook – Summer 2020 (J,J,A)

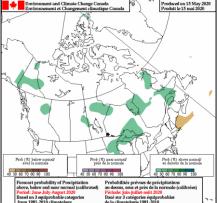


Precipitation

June July August

NB (J, J, A) Normal; ~256 mm

Produced May 15





above, below and near normal (calibrated)
Period: June July-August 2020

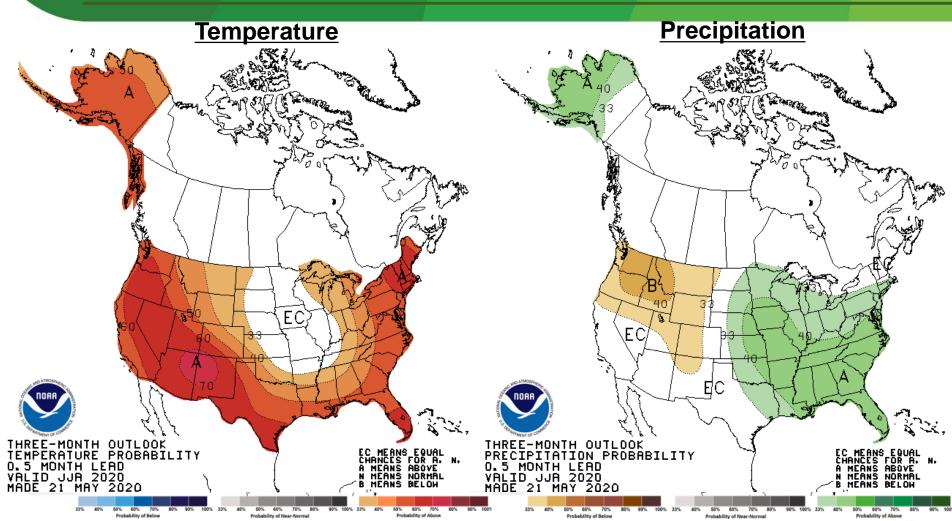
Based on 3 equiprobable categories from 1981-2010 climatology

Probabilités prévues de précipitations au-dessus, sous et près de la normale (calibrées) Période: juin-juillet-août 2020

Basé sur 3 catégories équiprobables de la climatologie 1981-2010



June - July - August



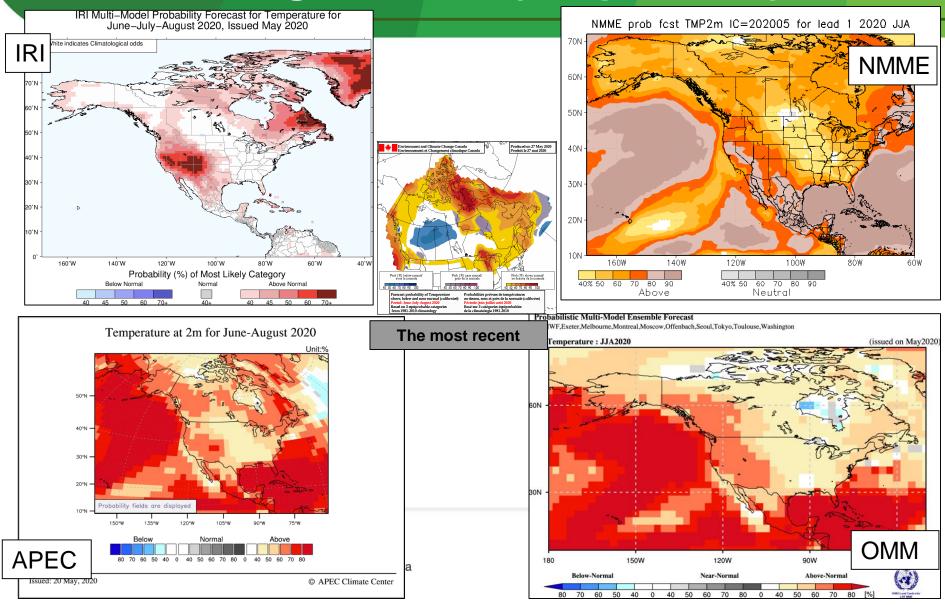


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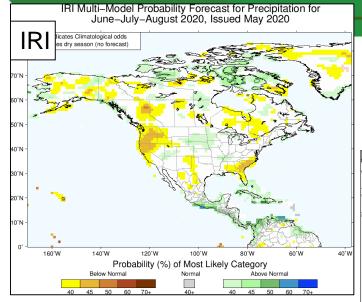
Environnement et Changement climatique Canada

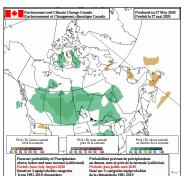


Summer 2020 Probabilistic Forecast from foreign models (temperature)

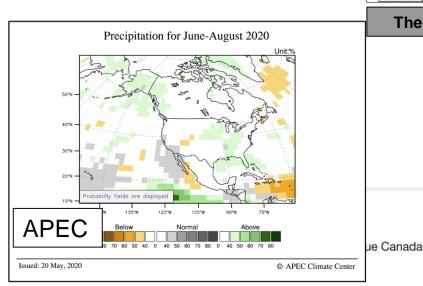


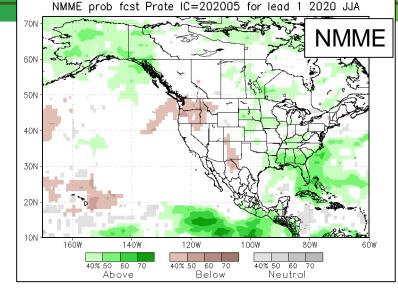
Summer 2020 Probabilistic Forecast from foreign models (precipitation)

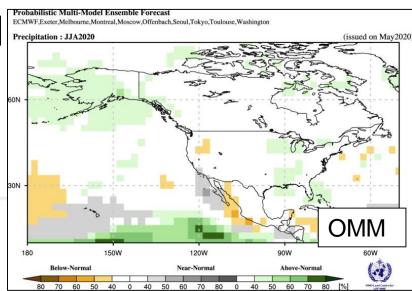




The most recent

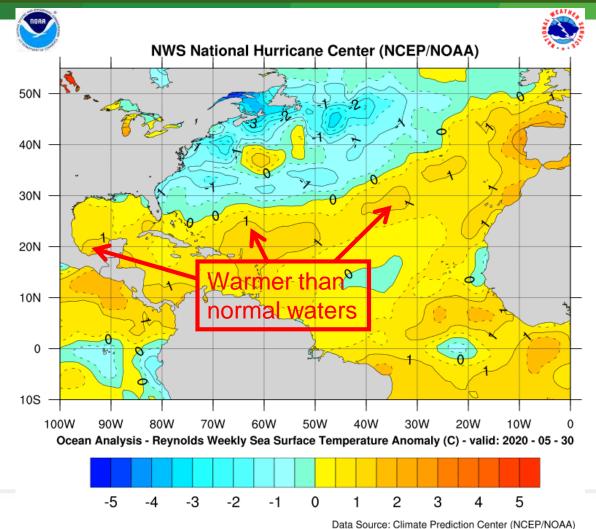






Ocean conditions...

SST (Sea Surface Temperature) anomaly from May 30



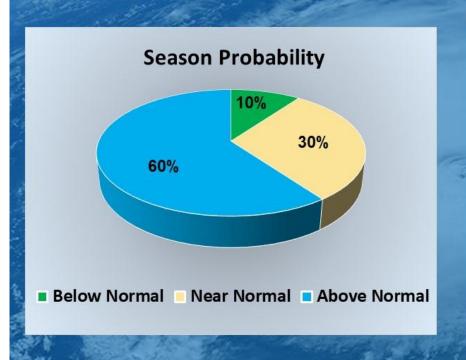




Spring 2020 Atlantic Hurricane Forecast



2020 NOAA Hurricane Season Outlook



13-19 Named Storms
(Average 12)

6-10 Hurricanes
(Average 6)

3-6 Major Hurricanes
(Average 2-3)





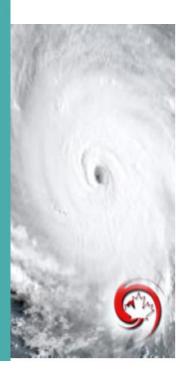


2020 List of Atlantic Storm Names

Arthur
Bortha
Cristobal*
Dolly
Edouard
Fay
Gonzalo

Hanna Isaias Josephine Kyle Laura Marco Nana

Omar Paulette Rene Sally Teddy Vicky Wilfred



^{*} Tropical Depression #3 is likely to become Cristobal within the next day or so





Contact

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Environment and Climate Change Canada Weather Pages

www.weather.gc.ca

